



## Biology

Time Remaining: 45/45 (Minutes)

Q.1

Test 5 Cell Structure and Function A

Biology Unit Wise

**What is the primary difference between prokaryotes and eukaryotes?**

- (a) Prokaryotes have cell wall and eukaryotes lack it
- (b) Prokaryotes lack mitochondria while eukaryotes have them
- (c) Prokaryotes do not have distinct nucleus and eukaryotes have a distinct nucleus
- (d) Both 'a' & 'b'

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Correct Answer:

☐ A ☐ B ☐ C ☐ D

Next



Time Remaining: 44/45 (Minutes)

Q.2

Test 5 Cell Structure and Function A

Biology Unit Wise

**Cytoplasm of plant cell is:**

- (a) Less viscous than animal cell
- (b) More viscous than animal cell
- (c) Equal in viscosity to the animal cell
- (d) None of these

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
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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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 No internet connection

Time Remaining: 44/45 (Minutes)

Q.3

Test 5 Cell Structure and Function A

Biology Unit Wise

**Regarding Eukaryotes & Prokaryotes, which statement is correct?**

- (a) Eukaryotes are multicellular organisms only
- (b) Eukaryotes & Prokaryotes both are multicellular organisms
- (c) Eukaryotes may be unicellular or multicellular organisms
- (d) Prokaryotes may be unicellular or multicellular organisms

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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Time Remaining: 44/45 (Minutes)

Q.4

Test 5 Cell Structure and Function A

Biology Unit Wise

**The main difference between animal and plant cell is that:**

- (a) Animal cell lack rigid cell wall
- (b) Animal cells have vacuoles
- (c) Plant cell lack rigid cell wall
- (d) Plant cells have small vacuoles

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Correct Answer:



A



B



C



D

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Time Remaining: 44/45 (Minutes)

Q.5

Test 5 Cell Structure and Function A

Biology Unit Wise

**Which of the following organelles is present in both prokaryotic and eukaryotic cells?**

- |                  |                   |
|------------------|-------------------|
| (a) Chloroplast  | (b) Ribosomes     |
| (c) Mitochondria | (d) Golgi Complex |

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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**Time Remaining: 43/45 (Minutes)****Q.6****Test 5 Cell Structure and Function A****Biology Unit Wise****A prokaryotic cell lacks:**

- (a) True nucleus
- (b) Nuclear envelope
- (c) Membrane bounded organelles
- (d) All the above

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Time Remaining: 43/45 (Minutes)

Q.7

Test 5 Cell Structure and Function A

Biology Unit Wise

**Prokaryotic cell does not possess:**

- (a) Cell wall
- (b) Nuclear envelope
- (c) Cytoplasm
- (d) Plasma membrane

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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Time Remaining: 43/45 (Minutes)

Q.8

Test 5 Cell Structure and Function A

Biology Unit Wise

**Protoplasm is the region:**

- (a) Between cell membrane & nuclear envelope
- (b) Between cell wall & nuclear envelope
- (c) Inside the cell membrane
- (d) Inside the nuclear envelope

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Correct Answer:



A



B



C



D

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Time Remaining: 43/45 (Minutes)

Q.9

Test 5 Cell Structure and Function A

Biology Unit Wise

Plant cells have \_\_\_\_\_ and \_\_\_\_\_, which are not present in animal cells:

- (a) Mitochondria, chloroplasts
- (b) Cell membranes, cell walls
- (c) Chloroplasts, nucleus
- (d) Chloroplasts, cell wall

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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**Time Remaining: 42/45 (Minutes)****Q.10** Test 5 Cell Structure and Function A Biology Unit Wise**Which of the following is true about protein layers in the plasma membrane?**

- (a) Protein layers are continuous
- (b) Protein layers are confined to the surface of the membrane
- (c) Proteins are embedded in lipid layers in a mosaic manner
- (d) All of the above

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Time Remaining 42/45 (Minutes)



Test 5 Cell Structure and Function A

Biology Unit Wise

**Main fabric of the plasma membrane is:**

- (a) Phospholipids      (b) Intrinsic proteins  
(c) Extrinsic proteins   (d) Cholesterol

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Correct Answer:



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Time Remaining 42/45 (Minutes)



Test 5 Cell Structure and Function A Biology Unit Wise

**Tucked between the hydrophobic tails of the membrane phospholipids are present:**

- (a) Carbohydrates (b) Intrinsic proteins  
(c) Cholesterol (d) Extrinsic proteins

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Correct Answer



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Time Remaining 41/45 (Minutes)



Test 5 Cell Structure and Function A

Biology Unit Wise

**Which one of the following statements is correct?**

- (a) The polar portion of cholesterol is facing external to the membrane
- (b) Placement of cholesterol molecules in the membrane interfere the flexibility of lipids hydrocarbon chain
- (c) Cholesterol provides stiffness to membrane
- (d) Cholesterol is absent in bacterial plasma membrane

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Correct Answer:



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Time Remaining 41/45 (Minutes)



Test 5 Cell Structure and Function A Biology Unit Wise

**Carbohydrates in plasma membrane are:**

- (a) Attached to proteins or lipids on the extracellular side of the membrane
- (b) On the inner or outer surface of the phospholipid bilayer, but not embedded in its hydrophobic core
- (c) Embedded in the phospholipid bilayer; may extend through both layers
- (d) Embedded in the phospholipid bilayer; may not extend through both layers

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Correct Answer:



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Time Remaining 41:45 (Minutes)

Q115

Test 5 Cell Structure and Function A

Biology Unit Wise

How many layers does fluid mosaic model of plasma membrane have?

- (a) 1 (b) 2  
(c) 3 (d) 4

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Correct Answer:



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Time Remaining 41/45 (Minutes)

115

Test 5 Cell Structure and Function A

Biology Unit Wise

**The only difference in the prokaryotic and eukaryotic plasma membranes is:**

- (a) Number of layers (b) Cholesterol  
(c) Phospholipids (d) None of these

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Correct Answer:



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No internet connection

**Time Remaining 40/45 (Minutes)****Test 5 Cell Structure and  
Function A****Biology Unit Wise****Plasma membrane is:**

- |                              |                   |
|------------------------------|-------------------|
| (a) Permeable                | (b) Impermeable   |
| (c) Differentially permeable | (d) None of these |

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**Time Remaining 40/45 (Minutes)****Test 5 Cell Structure and Function A Biology Unit Wise**

**The continuous part of the plasma membrane is the:**

- |                  |                          |
|------------------|--------------------------|
| (a) Carbohydrate | (b) Phospholipid bilayer |
| (c) Nucleotides  | (d) Protein              |

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No internet connection

**Time Remaining 40/45 (Minutes)****Test 5 Cell Structure and Function A****Biology Unit Wise****Cells are:**

- (a) Only found in pairs, because single cells cannot exist independently
- (b) Limited in size to 200 and 500 micrometers in diameter
- (c) Characteristic of eukaryotic but not prokaryotic organisms
- (d) Characteristic of prokaryotic and eukaryotic organisms

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Time Remaining 40/45 (Minutes)

20

Test 5 Cell Structure and Function A

Biology Unit Wise

**In comparison to eukaryotes, prokaryotes:**

- (a) Are structurally more complex
- (b) Are larger
- (c) Are smaller
- (d) Do not have membranes

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Time Remaining 39/45 (Minutes)



Test 5 Cell Structure and  
Function A

Biology Unit Wise

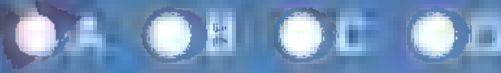
Which of the following are found in plant, animal,  
and bacterial cells?

- (a) Mitochondria (b) Ribosomes  
(c) Chloroplasts (d) Endoplasmic reticulum

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Correct Answer:



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Time Remaining 38/45 (Minutes)



Test 5 Cell Structure and  
Function A

Biology Unit Wise

**What is the function of the nuclear pore complex found in eukaryotes?**

- (a) It regulates the movement of proteins and RNAs into and out of the nucleus
- (b) It synthesizes the proteins required to copy DNA and make mRNA
- (c) It synthesizes secreted proteins
- (d) It assembles ribosomes from raw materials that are synthesized in the nucleus

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Correct Answer:



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Time Remaining 38/45 (Minutes)



Test 5 Cell Structure and  
Function A

Biology Unit Wise

**A cell with a predominance of rough endoplasmic reticulum is most likely:**

- (a) Producing large quantities of proteins for secretion
- (b) Producing large quantities of proteins in the cytosol
- (c) Producing large quantities of carbohydrates to assemble an extensive cell wall matrix
- (d) Producing large quantities of carbohydrates for storage in the vacuole

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Correct Answer:



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## Biology

Time Remaining 38/45 (Minutes)



Test 5 Cell Structure and  
Function A

Biology Unit Wise

**Which organelle often takes up much of the volume of a plant cell?**

- (a) Lysosome (b) Central vacuole  
(c) Golgi apparatus (d) Chloroplast

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Correct Answer:



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Time Remaining 37/45 (Minutes)

25

Test 5 Cell Structure and  
Function A

Biology Unit Wise

Plasma membrane is composed of \_\_\_\_\_ lipids:

- (a) 20%-40% (b) 40%-60%  
(c) 60%-80% (d) 80%-90%

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Correct Answer:



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Time Remaining 37/45 (Minutes)

26

Test 5 Cell Structure and  
Function A

Biology Unit Wise

Plasma membrane is composed of \_\_\_\_\_  
proteins:

- (a) 20%-40% (b) 40%-60%  
(c) 60%-80% (d) 80%-90%

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Correct Answer:



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## Biology

Time Remaining 37/45 (Minutes)

Test 5 Cell Structure and  
Function A

Biology Unit Wise

**What organism lacks cell wall?**

- (a) Plant cells                      (b) Protozoa  
(c) Bacterial cells                (d) Algae

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Correct Answer:



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Time Remaining 37/45 (Minutes)

25

Test 5 Cell Structure and  
Function A

Biology Unit Wise

**Amino acids (proteins) are present in the cell walls of:**

- |                 |                 |
|-----------------|-----------------|
| (a) Gymnosperms | (b) Bacteria    |
| (c) Mosses      | (d) Angiosperms |

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Correct Answer:



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## Biology

Time Remaining 36/45 (Minutes)



Test 5 Cell Structure and  
Function A

Biology Unit Wise

Plant cell wall consists of how many layers:

- (a) 2 (b) 3  
(c) 4 (d) 5

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Correct Answer:



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Time Remaining 36/45 (Minutes)

1:30

Test 5 Cell Structure and  
Function A

Biology Unit Wise

**The thickest of all plant cell walls is:**

- (a) Primary cell wall    (b) Secondary cell wall  
(c) Middle lamella    (d) All have same thickness

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Correct Answer:



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**Time Remaining 36/45 (Minutes)**



**Test 5 Cell Structure and  
Function A**

**Biology Unit Wise**

**The correct sequence of layers of cell wall from  
inside to outside is:**

- (a) Primary cell wall → Secondary cell wall → Middle lamella
- (b) Secondary cell wall → Primary cell wall → Middle lamella
- (c) Middle lamella → Primary cell wall → Secondary cell wall
- (d) Middle lamella → Secondary cell wall → Primary cell wall

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**Correct Answer:**



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**Time Remaining 36/45 (Minutes)**



**Test 5 Cell Structure and  
Function A**

**Biology Unit Wise**

**In secondary cell wall, \_\_\_\_\_ cements and  
anchors cellulose microfibrils together:**

- (a) Pectin                      (b) Chitin  
(c) Lignin                     (d) Hemicellulose

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**Correct Answer:**



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## Biology

Time Remaining 35/45 (Minutes)



Test 5 Cell Structure and  
Function A

Biology Unit Wise

Chemically, \_\_\_\_\_ Is about 90% water:

- (a) Cytoplasm (b) Cytosol  
(c) Sol (d) Cell sap

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Correct Answer:



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Time Remaining 35/45 (Minutes)



Test 5 Cell Structure and  
Function A

Biology Unit Wise

Which is/are the part(s) of cytoplasm?

- (a) Nucleus (b) Sol  
(c) Mitochondria (d) Both b and c

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Correct Answer:



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# Biology

Time Remaining 35/45 (Minutes)

035

Test 5 Cell Structure and  
Function A

Biology Unit Wise

**Major portion of the cytosol is:**

- |           |                |
|-----------|----------------|
| (a) Water | (b) Sol        |
| (c) Gel   | (d) Organelles |

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Correct Answer:



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Time Remaining 35/45 (Minutes)

36

Test 5 Cell Structure and  
Function A

Biology Unit Wise

The movement of cyclosis is because of:

- (a) Cilia
- (b) Microtubules
- (c) Intermediate filaments
- (d) Microfilaments

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Correct Answer:



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**Time Remaining 35/45 (Minutes)**



**Test 5 Cell Structure and  
Function A**

**Biology Unit Wise**

**The digestive vacuoles and autophagosomes are  
also known as:**

- (a) Glyoxysomes
- (b) Peroxisomes
- (c) Primary Lysosome
- (d) Secondary Lysosome

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**Correct Answer:**



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## Biology

Time Remaining 34/45 (Minutes)

Q35

Test 5 Cell Structure and  
Function A

Biology Unit Wise

**One of the following is not double membranous structure**

- (a) Mitochondrion
- (b) Vacuole
- (c) Chloroplast
- (d) Nucleus

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Correct Answer:



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## Biology

Time Remaining 34/45 (Minutes)



Test 5 Cell Structure and  
Function A

Biology Unit Wise

**Tonoplast is the membrane of:**

- (a) Mitochondrion (b) Vacuole  
(c) Chloroplast (d) Nucleus

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Correct Answer:



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**Time Remaining 34/45 (Minutes)**

**Q40**

**Test 5 Cell Structure and  
Function A**

**Biology Unit Wise**

**Vacuoles are large vesicles that originate from the:**

- (a) Endoplasmic reticulum
- (b) Golgi complex
- (c) Plasma membrane
- (d) All of these

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**Correct Answer:**



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# Unit-Wise Test # 5

## Cell Structure & Function A

### Unit # 4



01

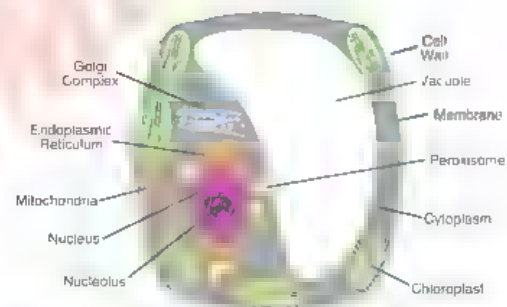
What is the primary difference between prokaryotes and eukaryotes?

- (a) Prokaryotes have cell wall and eukaryotes lack it
- (b) Prokaryotes lack mitochondria while eukaryotes have them
- (c) Prokaryotes do not have distinct nucleus and eukaryotes have a distinct nucleus**
- (d) Both 'a' & 'b'

02

Cytoplasm of plant cell is:

- (a) Less viscous than animal cell
- (b) More viscous than animal cell
- (c) Equal in viscosity to the animal cell
- (d) None of these



03

Regarding Eukaryotes & Prokaryotes, which statement is correct?

- (a) Eukaryotes are multicellular organisms only
- (b) Eukaryotes & Prokaryotes both are multicellular organisms
- (c) Eukaryotes may be unicellular or multicellular organisms**
- (d) Prokaryotes may be unicellular or multicellular organisms

04

The main difference between animal and plant cell is that:

- (a) Animal cell lack rigid cell wall
- (b) Animal cells have vacuoles
- (c) Plant cell lack rigid cell wall
- (d) Plant cells have small vacuoles

05

Which of the following organelles is present in both prokaryotic and eukaryotic cells?

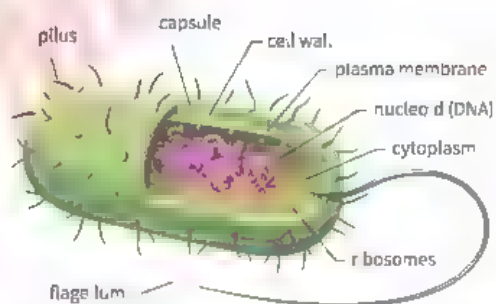
- (a) Chloroplast
- (b) Ribosomes**
- (c) Mitochondria
- (d) Golgi Complex



06

A prokaryotic cell lacks:

- (a) True nucleus
- (b) Nuclear envelope
- (c) Membrane bounded organelles
- (d) All the above**



07

Prokaryotic cell does not possess:

- (a) Cell wall
- (b) Nuclear envelope**
- (c) Cytoplasm
- (d) Plasma membrane

08

**Protoplasm is the region:**

- (a) Between cell membrane & nuclear envelope
- (b) Between cell wall & nuclear envelope
- (c) Inside the cell membrane**
- (d) Inside the nuclear envelope

**Learning Outcome:-**

**Protoplast = Plasma membrane + Cytoplasm + Nucleus**

**Protoplasm = Cytoplasm + Nucleus**

09

Plant cells have \_\_\_\_\_ and \_\_\_\_\_, which are not present in animal cells:

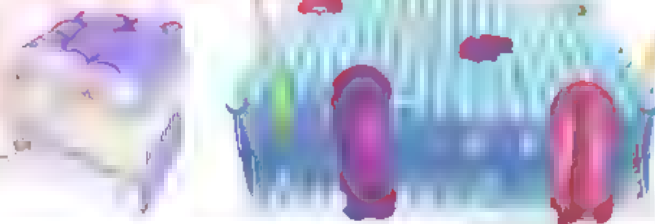
- (a) Mitochondria, chloroplasts
- (b) Cell membranes, cell walls
- (c) Chloroplasts, nucleus
- (d) Chloroplasts, cell wall

10

Which of the following is true about protein layers in the plasma membrane?

- (a) Protein layers are continuous
- (b) Protein layers are confined to the surface of the membrane
- (c) Proteins are embedded in lipid layers in a mosaic manner**
- (d) All of the above

Globular protein  
Hydrophilic zone  
Hydrophobic zone  
Hydrophilic zone





11

Main fabric of the plasma membrane is:

- (a) **Phospholipids**
- (b) Intrinsic proteins
- (c) Extrinsic proteins
- (d) Cholesterol

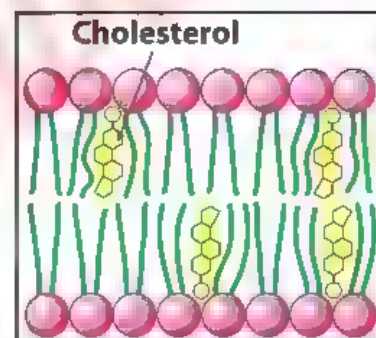
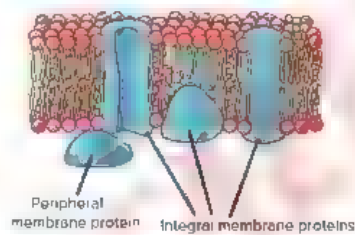


Fabric = Basic structure

12

Tucked between the hydrophobic tails of the membrane phospholipids are present:

- (a) Carbohydrates
- (b) Intrinsic proteins
- (c) Cholesterol**
- (d) Extrinsic proteins



13

Which one of the following statements is correct?

- (a) The polar portion of cholesterol is facing external to the membrane
- (b) Placement of cholesterol molecules in the membrane interfere the flexibility of lipids hydrocarbon chain
- (c) Cholesterol provides stiffness to membrane
- (d) Cholesterol is absent in bacterial plasma membrane**

**Cholesterol helps to keep the membrane fluid consistent.  
Cholesterol helps strengthen the bilayer and decrease its permeability**

Carbohydrates in plasma membrane are:

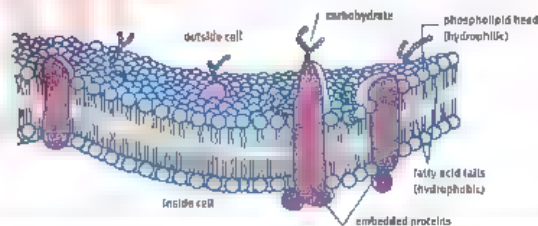
14

(a) Attached to proteins or lipids on the extracellular side of the membrane

(b) On the inner or outer surface of the phospholipid bilayer, but not embedded in its hydrophobic core

(c) Embedded in the phospholipid bilayer; may extend through both layers

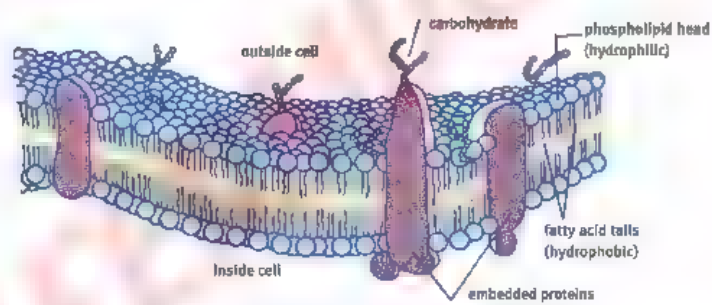
(d) Embedded in the phospholipid bilayer; may not extend through both layers



15

How many layers does fluid mosaic model of plasma membrane have?

- (a) 1
- (b) 2**
- (c) 3
- (d) 4

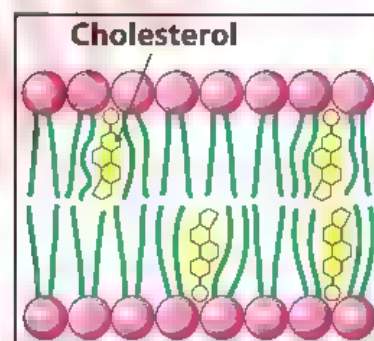




16

The only difference in the prokaryotic and eukaryotic plasma membranes is:

- (a) Number of layers
- (b) Cholesterol**
- (c) Phospholipids
- (d) None of these



17

Plasma membrane is:

- (a) Permeable
- (b) Impermeable
- (c) Differentially permeable
- (d) None of these

18

The continuous part of the plasma membrane is the:

- (a) Carbohydrate
- (b) Phospholipid bilayer**
- (c) Nucleotides
- (d) Protein



19

Cells are:

- (a) Only found in pairs, because single cells cannot exist independently
- (b) Limited in size to 200 and 500 micrometers in diameter
- (c) Characteristic of eukaryotic but not prokaryotic organisms
- (d) **Characteristic of prokaryotic and eukaryotic organisms**

20

In comparison to eukaryotes, prokaryotes:

- (a) Are structurally more complex
- (b) Are larger
- (c) Are smaller**
- (d) Do not have membranes

21

Which of the following are found in plant, animal, and bacterial cells?

- (a) Mitochondria
- (b) Ribosomes**
- (c) Chloroplasts
- (d) Endoplasmic reticulum



22

What is the function of the nuclear pore complex found in eukaryotes?

- (a) It regulates the movement of proteins and RNAs into and out of the nucleus
- (b) It synthesizes the proteins required to copy DNA and make mRNA
- (c) It synthesizes secreted proteins
- (d) It assembles ribosomes from raw materials that are synthesized in the nucleus

23

A cell with a predominance of rough endoplasmic reticulum is most likely:

- (a) Producing large quantities of proteins for secretion
- (b) Producing large quantities of proteins in the cytosol
- (c) Producing large quantities of carbohydrates to assemble an extensive cell wall matrix
- (d) Producing large quantities of carbohydrates for storage in the vacuole

24

Which organelle often takes up much of the volume of a plant cell?

- (a) Lysosome
- (b) **Central vacuole**
- (c) Golgi apparatus
- (d) Chloroplast

25

Plasma membrane is composed of \_\_\_\_\_ lipids:

- (a) 20%-40%
- (b) 40%-60%
- (c) 60%-80%
- (d) 80%-90%

26

Plasma membrane is composed of \_\_\_\_\_ proteins:

- (a) 20%-40%
- (b) 40%-60%
- (c) 60%-80%**
- (d) 80%-90%

27

What organism lacks cell wall?

- (a) Plant cells
- (b) **Protozoa**
- (c) Bacterial cells
- (d) Algae



28

Amino acids (proteins) are present in the cell walls of:

- (a) Gymnosperms
- (b) Bacteria**
- (c) Mosses
- (d) Angiosperms

29

Plant cell wall consists of how many layers:

- (a) 2
- (b) 3
- (c) 4
- (d) 5

30

The thickest of all plant cell walls is:

- (a) Primary cell wall
- (b) **Secondary cell wall**
- (c) Middle lamella
- (d) All have same thickness

31

The correct sequence of layers of cell wall from inside to outside is:

- (a) Primary cell wall → Secondary cell wall → Middle lamella
- (b) Secondary cell wall → Primary cell wall → Middle lamella**
- (c) Middle lamella → Primary cell wall → Secondary cell wall
- (d) Middle lamella → Secondary cell wall → Primary cell wall

32

In secondary cell wall, \_\_\_\_\_ cements and anchors cellulose microfibrils together:

- (a) Pectin
- (b) Chitin
- (c) Lignin**
- (d) Hemicellulose

33

Chemically, \_\_\_\_ is about 90% water:

- (a) Cytoplasm
- (b) Cytosol
- (c) Sol
- (d) Cell sap



34

Which is/are the part(s) of cytoplasm?

- (a) Nucleus
- (b) Sol
- (c) Mitochondria
- (d) Both b and c**

35

Major portion of the cytosol is:

- (a) Water
- (b) Sol
- (c) Gel
- (d) Organelles

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The movement of cyclosis is because of:

- (a) Cilia
- (b) Microtubules
- (c) Intermediate filaments
- (d) Microfilaments**

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Which of the following is true of integral membrane proteins?

- (a) They lack tertiary structure
- (b) They are loosely bound to the surface of the bilayer
- (c) They are usually transmembrane proteins**
- (d) They are not mobile within the bilayer

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One of the following is not double membranous structure:

- (a) Mitochondrion
- (b) Vacuole**
- (c) Chloroplast
- (d) Nucleus

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Tonoplast is the membrane of:

- (a) Mitochondrion
- (b) Vacuole**
- (c) Chloroplast
- (d) Nucleus



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Vacuoles are large vesicles that originate from the:

- (a) Endoplasmic reticulum
- (b) Golgi complex
- (c) Plasma membrane
- (d) All of these**